



AutoView[®] 2020/2030

Installer/User Guide



**INSTRUCTIONS**

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**DANGEROUS VOLTAGE**

This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

**POWER ON**

This symbol indicates the principal on/off switch is in the on position.

**POWER OFF**

This symbol indicates the principal on/off switch is in the off position.

**PROTECTIVE GROUNDING TERMINAL**

This symbol indicates a terminal which must be connected to earth ground prior to making any other connections to the equipment.



AutoView® 2020/2030

Installer/User Guide

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USA Notification

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canadian Notification

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Japanese Approvals

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Safety and EMC Approvals and Markings

UL, FCC, cUL, ICES, CE, N, GS, IRAM, GOST, VCCI, MIC, C-Tick

Sound Level Measure

The measured sound level of this appliance is 44.7 dB(A).

Die arbeitsplatzbezogene Geräuschemission des Gerätes beträgt 44,7 dB(A).

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CHAPTER

1

*Product Overview***Features and Benefits**

The multiuser, 16-port AutoView® 2020/2030 switch integrates Avocent field-proven analog keyboard, video and mouse (KVM) switching technology with advanced cable management, flexible access for two simultaneous users and a patented, next-generation user interface. The AutoView 2020/2030 KVM switch features front panel USB and PS/2 ports that conveniently support all major server platforms.

On-screen management through the AutoView 2020/2030 OSCAR® graphical user interface (GUI) provides easy system configuration and server selection.

The AutoView switch features virtual media support and both AVRIQ intelligent module and Integrated Access Cable (IAC) module capability. The AVRIQ module with CAT 5 design dramatically reduces cable clutter, while providing optimal resolution and video settings. The IAC module is designed to provide the same ease of use as the AVRIQ module at a reduced cost.



Figure 1.1: AutoView 2020 Switch

Virtual media

Virtual media capabilities allow you to connect USB-based media, such as a USB disk drive or memory device, to the front panel of the AutoView switch. Data can then be transferred between the target device and the USB media device connected to the AutoView switch. The AutoView 2030 switch is virtual media enabled, while the AutoView 2020 switch has the ability to be upgraded to support virtual media. Please visit www.avocent.com for more information.

AVRIQ intelligent module

AVRIQ modules allow direct KVM connectivity to servers in your AutoView switching system. Each AutoView 2020/2030 switch has 16 Avocent Rack Interface (ARI) ports for connecting AVRIQ modules. Utilizing an AVRIQ module, you can attach additional switches to expand your AutoView switching system. This flexibility allows you to add capacity as your data center grows.

The built-in memory of the AVRIQ module simplifies configuration by assigning and retaining unique server names and Electronic ID (EID) numbers for each attached server. Since configuration information is stored on the AVRIQ module, it functions seamlessly when connected to any server port. The AVRIQ module is powered directly from the server and provides Keep Alive functionality even if the AutoView switch is not powered.

IAC modules

IAC modules are RJ-45 style cables that provide a low cost alternative to AVRIQ modules. Available in three different lengths, IAC modules support PS/2 and USB connectivity.

Multiplatform support

The AVRIQ modules available with the AutoView 2020/2030 switch support PS/2, Sun™ and USB server environments. Using the OSCAR graphical user interface in conjunction with these modules allows you to switch easily across platforms.

OSCAR graphical user interface

An AutoView 2020/2030 switch uses the OSCAR interface, which features intuitive menus to configure your switching system and select servers. Computers can be identified by unique name, EID or port number, allowing you to assign unique server names.

Security

The OSCAR interface allows you to protect your system with a screen saver password. After a user-defined time, the screen saver mode engages and access is prohibited until the appropriate password is entered to reactivate the system.

Operation modes

The OSCAR user interface provides convenient operation modes for easy system administration of the AutoView 2020/2030 switch. These modes (Broadcast, Scan, Switch and Share) allow you to manage your switching activities. Chapter 3 explains these modes in detail.

Video

The AutoView 2020/2030 switch provides optimal resolution for analog VGA, SVGA and XGA video. You can achieve resolutions of up to 1280 x 1024 depending upon the length of cable separating your switch and servers.

Flash upgradable

Upgrade your AVRIQ modules at any time through the network port located on your AutoView 2020/2030 switch to ensure the AutoView switching system is always running the most current version available. See *Appendix A* for more information.

Cascading expansion

The AutoView 2020/2030 switch features an Avocent Console Interface (ACI) port that allows you to cascade between two AutoView switches using only a CAT 5 cable. This extra “cascade” of units allows you to attach up to 256 servers in one system. See Chapter 2 for more information.

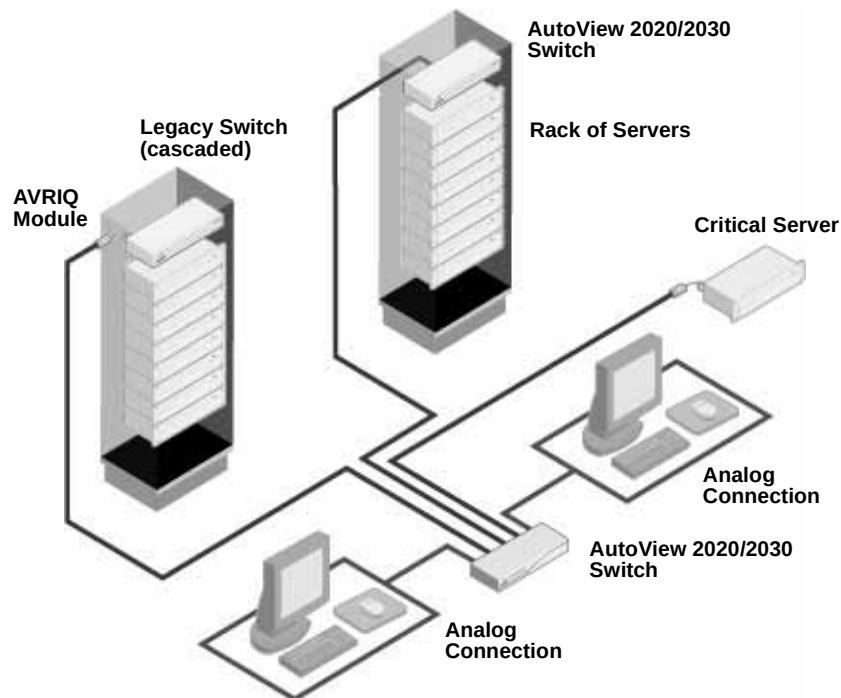


Figure 1.2: Example of an AutoView 2020/2030 Switch Configuration

Safety Precautions

To avoid potential video and/or keyboard problems when using Avocent products:

- If the building has 3-phase AC power, ensure that the server and monitor are on the same phase. For best results, they should be on the same circuit.

- Use only Avocent-supplied cable to connect servers and KVM switches. Avocent warranties do not apply to damage resulting from user-supplied cable.

To avoid potentially fatal shock hazard and possible damage to equipment, please observe the following precautions:

- Do not use a 2-wire extension cord in any Avocent product configuration.
- Test AC outlets at the server and monitor for proper polarity and grounding.
- Use only with grounded outlets at both the server and monitor. When using a backup Uninterruptible Power Supply (UPS), power the server, the monitor and the AutoView 2020/2030 switch off the supply.

NOTE: The AC inlet is the main disconnect.

Rack mount safety considerations

- **Elevated Ambient Temperature:** If installed in a closed rack assembly, the operation temperature of the rack environment may be greater than room ambient. Use care not to exceed the rated maximum ambient temperature of the unit.
- **Reduced Air Flow:** Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.
- **Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- **Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring. Consider equipment nameplate ratings for maximum current.
- **Reliable Earthing:** Reliable earthing of rack mounted equipment should be maintained. Pay particular attention to supply connections other than direct connections to the branch circuit (for example, use of power strips).

CHAPTER

2

*Installation***Getting Started**

Before installing your AutoView 2020/2030 switch, refer to the following list to ensure you have all items that shipped with the switch as well as other items necessary for proper installation.

Supplied with the AutoView 2020/2030 switch

- Power cord
- One null modem serial cable
- Rack mounting kit
- AutoView 2020/2030 Quick Installation Guide

Additional items needed (one per attached server or switch)

- IAC module
- AVRIQ module and UTP cabling
- For virtual media support: DSAVIQ module (USB2 or USB2L) and UTP cabling



Figure 2.1: AutoView 2020/2030 Switch Horizontal Installation

Rack Mounting Your AutoView 2020/2030 Switch



CAUTION: Rack Loading - Overloading or uneven loading of racks may result in shelf or rack failure, causing damage to equipment and possible personal injury. Stabilize racks in a permanent location before loading begins. Mount components beginning at the bottom of the rack, then work to the top. Do not exceed your rack load rating.

To install the 1U switch mounting bracket:

1. Remove the first two screws on each side.
2. Line up the holes in the “long side” of the kit’s side brackets with the screw holes in the switch.
3. With a Phillips screwdriver, fasten the mounting brackets to the switch using two screws on each side.
4. Attach four cage nuts or clip nuts to the rack mounting flange of the rack cabinet so that the nut is positioned on the inside of the rack.

NOTE: Nuts are not included with the rack mount kit.

5. Mount the switch assembly to the rack cabinet by matching the holes in the “short side” of each bracket to an appropriate set of matching holes on your rack cabinet. Next, insert the combination hex head screws through the slots in the bracket and the holes in the mounting rail, then into the cage nuts or clip nuts.

Installing the AutoView 2020/2030 Switch

Plug the supplied power cord into the back of the switch and then into an appropriate power source. Figure 2.2 illustrates one possible configuration for your AutoView 2020/2030 switch. See the following detailed set of procedures to successfully install your switch.



CAUTION: To reduce the risk of electric shock or damage to your equipment -

- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) outlet that is easily accessible at all times.
- Disconnect the power from the unit by unplugging the power cord from either the electrical outlet or the unit.

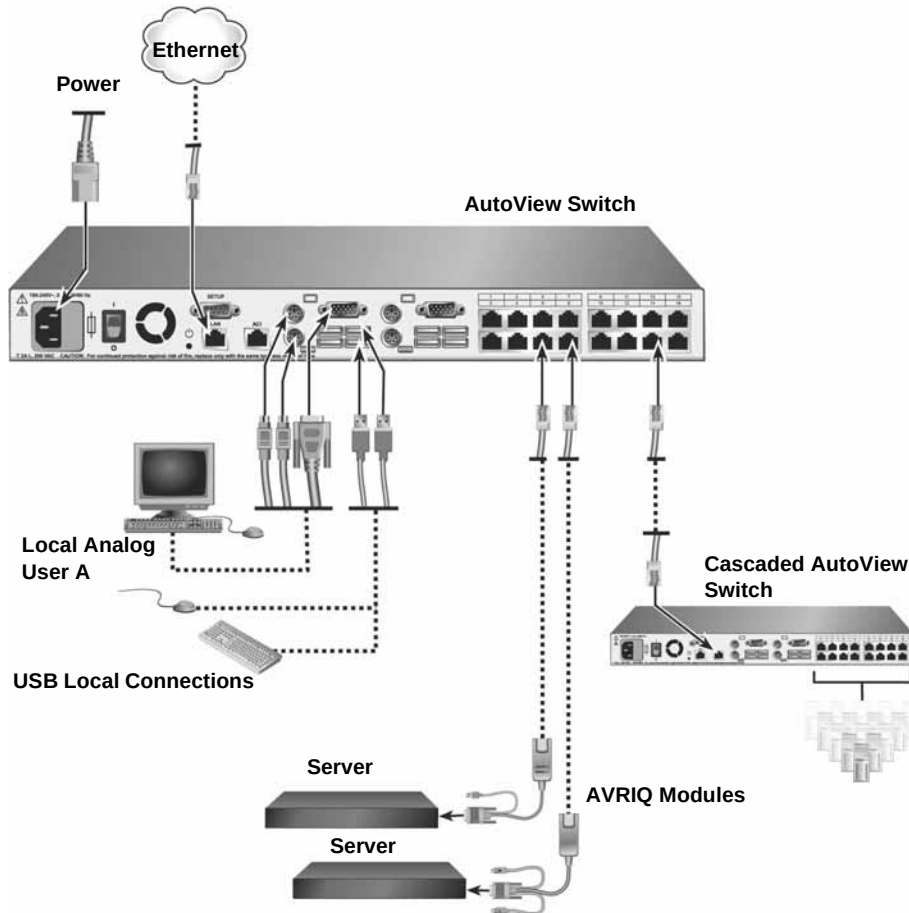


Figure 2.2: Basic AutoView 2020/2030 Switch Configuration

To connect an AVRIQ module to each server:

1. Locate the AVRIQ modules for your AutoView 2020/2030 switch.
2. Attach the appropriately color-coded cable ends to the keyboard, monitor and mouse ports on the first server you will connect to the switch.
3. Attach one end of the CAT 5 cabling that will run between your AVRIQ module and AutoView switch to the RJ-45 connector on the AVRIQ module.
4. Connect the other end of the CAT 5 cable to the desired ARI port on the back of your AutoView switch.
5. Repeat steps 2 to 4 for all servers you wish to attach.

NOTE: When connecting a Sun AVRIQ module, you must use a multi-sync monitor to accommodate Sun servers that support both VGA and sync-on-green or composite sync.

To connect a server using an IAC module:

1. Locate an IAC module for the server you wish to connect.
2. Attach the appropriately color-coded cable ends of the IAC module to the keyboard, monitor and mouse ports on the first server you will connect to the switch.
3. Attach the other end of the IAC module to an open ARI port.
4. Repeat steps 1 through 3 for each server you wish to attach.

Connecting Users

To connect local peripherals:

1. Select the keyboard, monitor and mouse to be connected to local analog user A.
2. Locate the port set labeled A on the back of the switch. Connect these peripherals to their respective ports.
3. Repeat these steps for the local analog port set labeled B on the back of the switch, if desired.
4. Bundle and label the cables for easy identification.

Cascading AutoView 2020/2030 Switches

You can cascade multiple AutoView 2020/2030 switches, enabling one or two users to connect to up to 256 servers. In a cascaded system, each ARI port on the main AutoView 2020/2030 switch will connect to the ACI port on each cascaded AutoView 2020/2030/2000/1500/1400 switch. Each cascaded switch can then be connected to a server with an AVRIQ or IAC module.

The example in Figure 2.3 shows one AutoView 2020/2030 switch cascaded under the main switch, enabling the connection of up to 15 primary servers and 16 secondary servers. Only one level of cascading is supported in this type of configuration; you cannot cascade additional legacy or AutoView 2020/2030 switches.

To cascade multiple AutoView 2020/2030 switches:

1. Connect the cascaded AutoView 2020/2030 switch to each server as described in the previous *Installing the AutoView 2020/2030 Switch* section.
2. Connect the local peripherals to analog user A of the main switch as described in *To connect local peripherals*.
3. Attach one end of the CAT 5 cabling that will run between your main and cascaded AutoView switch to the RJ-45 (ACI) port on the cascaded AutoView switch.
4. Attach the other end of the CAT 5 cable to one of the 16 RJ-45 (ARI) ports on the main AutoView 2020/2030 switch.

NOTE: The system will automatically “merge” the two switches. All servers connected to the cascaded AutoView 2020/2030 switch will display on the main AutoView 2020/2030 switch server list in the OSCAR interface.

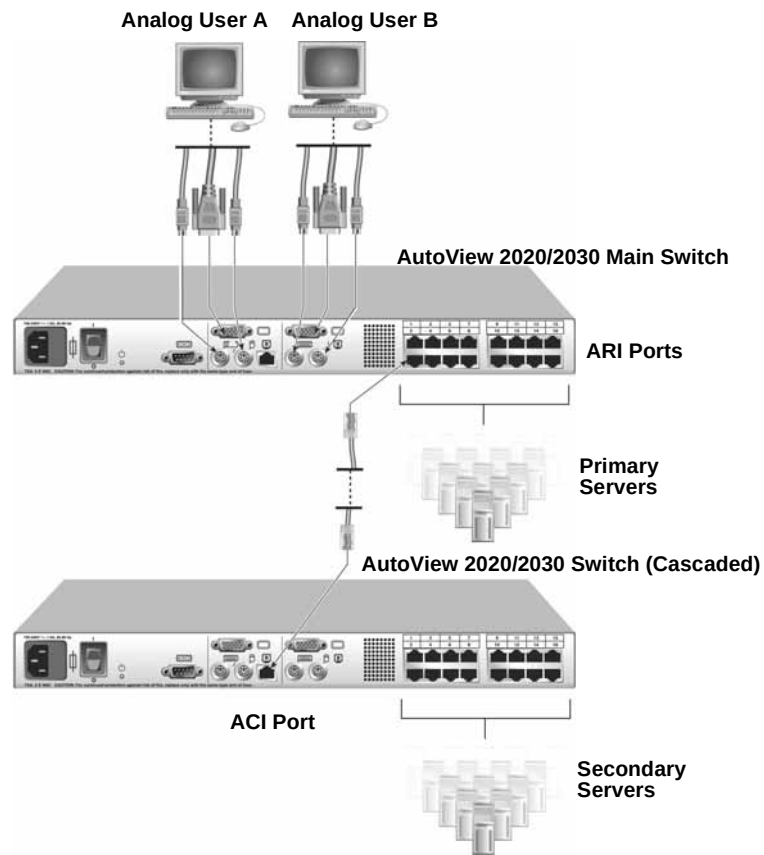


Figure 2.3: AutoView 2020/2030 Switch Configuration with a Cascaded Switch

5. Power cycle the cascaded switch to enable its local user port to recognize the AVRIQ or IAC module.
6. Repeat this process for all cascaded switches you wish to attach to your system.

CHAPTER

3

Operations

Viewing and Selecting Ports and Servers

Use the OSCAR interface Main dialog box to view, configure and control servers in the AutoView 2020/2030 switching system. View your servers by name, port or by the unique Electronic ID number (EID) embedded in each AVRIQ or IAC module. You will see an OSCAR interface-generated port list by default when you first launch the OSCAR interface.

The Port column indicates the ARI port to which a server is connected. If you connect a legacy KVM switch to the main AutoView 2020/2030 switch or an AutoView 2020/2030 cascaded switch, the port numbering displays the ARI port first, then the switch port to which the server is connected.

To access the Main dialog box:

Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.

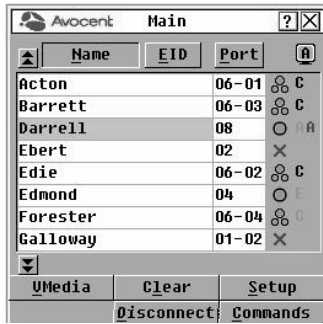


Figure 3.1: Example of a Main Dialog Box

NOTE: You can also press the **Control, Alt** or **Shift** key twice within one second to launch the OSCAR interface. You can use this key sequence in any place you see **Print Screen** throughout this installer/user guide. See page 19 for more information.

Viewing the status of your switch

The status of the servers in your system is indicated in the right columns of the Main dialog box. The following table describes the status symbols.

Table 3.1: OSCAR Interface Status Symbols

Symbol	Description
	AVRIQ and IAC modules are online (green circle).
	AVRIQ and IAC modules are offline or are not operating properly.
	Server is cascaded through a cascade legacy switch. The switch is online and has power.
	Server is cascaded through a cascade legacy switch. The switch is offline or has no power.
	AVRIQ module is being upgraded (yellow circle).
	AVRIQ and IAC modules are being accessed by the indicated user channel (green channel letter).
	AVRIQ and IAC modules are blocked by the indicated user channel (black channel letter).
	Virtual media is connected (blue channel letter).

Selecting servers

Use the Main dialog box to select servers. When you select a server, the switch reconfigures the keyboard and mouse to the proper settings for that server.

Access to servers may be blocked by the indicated user channel if multiple servers are connected to a single ARI port. The Main dialog box indicates blocked servers with a black channel letter. Attempting to access a blocked channel will prompt a message indicating the server is unavailable. Press **Esc** to return to the OSCAR interface and previously selected server.

To select servers:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.
2. Double-click the server name, EID or port number.
-or-
If the display order of your server list is by port (*Port* button is depressed), type the port number and press **Enter**.

-or-

If the display order of your server list is by name or EID number (*Name* or *EID* button is depressed), type the first few characters of the name of the server or the EID number to establish it as unique and press **Enter**.

To select the previous server:

Press **Print Screen** and then **Backspace**. This key combination toggles you between the previous and current connections.

To disconnect the user from a server:

Press **Print Screen** and then **Alt+0**. This leaves the user in a free state, with no server selected. The status flag on your desktop displays *Free*.

Soft switching

Soft switching allows you to switch to a server by simply typing the first few characters of its name or number. Pressing **Print Screen** initiates the soft switch feature. If you have set a Screen Delay Time and you press the key sequences before that time has elapsed, the OSCAR interface will not display.

To configure servers for soft switching:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.
2. Click *Setup - Menu*. The Menu dialog box displays.
3. For Screen Delay Time, type the number of seconds of delay desired before the Main dialog box is displayed after **Print Screen** is pressed. Click *OK*.

Navigating the OSCAR Interface

This table describes how to navigate the OSCAR interface using the keyboard and mouse.

Table 3.2: OSCAR Interface Navigation Basics

This Keystroke	Does This
Ctrl-Ctrl, Shift-Shift and/or Alt-Alt	Activates the OSCAR interface.
Print Screen-Print Screen	Press Print Screen twice to send the Print Screen keystroke to the currently selected device.
F1	Opens the Help screen for the current dialog box.
This Keystroke	Does This
Escape	Closes the current dialog box without saving changes and returns to the previous one. In the Main dialog box, it closes the OSCAR interface and returns to the flag. In a message box, it closes the pop-up box and returns to the current dialog box.

Table 3.2: OSCAR Interface Navigation Basics (Continued)

Alt+Hotkey	Opens dialog boxes, selects or checks options and executes actions when used with underlined or other designated letters.
Alt+X	Closes the current dialog box and returns to the previous one.
This Keystroke	Does This
Alt+O	Selects the <i>OK</i> button, then returns to the previous dialog box.
Single-click, Enter	In a text box, selects the text for editing and enables the Left and Right Arrow keys to move the cursor. Press Enter again to quit the edit mode.
Enter	Completes a switch in the Main dialog box and exits the OSCAR interface.
Print Screen, Backspace	Toggles back to previous selection.
Print Screen, Alt+0	Immediately disengages a user from a server; no server is selected. Status flag displays <i>Free</i> . (This only applies to the 0 on the keyboard and not the keypad.)
Print Screen, Pause	Immediately turns on screen saver mode and prevents access to that specific console, if it is password protected.
Up/Down Arrows	Moves the cursor from line to line in lists.
Right/Left Arrows	Moves the cursor between columns, or within the column when editing a text box.
Page Up/Page Down	Pages up and down through Name and Port lists and Help pages.
Home/End	Moves the cursor to the top or bottom of a list.
Delete	Deletes current selection in the scan list or characters in a text box.
Page Up/Page Down	Pages up and down through Name and Port lists and Help pages.
Numbers	Type from the keyboard or keypad.

Connecting local virtual media

Connecting virtual media directly to the AutoView 2030 switch via a USB port allows users to view, move or copy data between any attached target device and a USB media device connected to the AutoView switch.

Use virtual media to remotely connect and access USB external hard drives, CD-rom drives or USB Flash drives through the AutoView switch to each target device.

Virtual media also allows you to seamlessly perform BIOS updates, boot targets from a USB drive and back up data on target devices, all from your local connection.

For example, virtual media enables you to connect a USB thumb drive to the USB port on the AutoView switch and access or transfer data to or from that thumb drive to any computer connected to the AutoView switch.

NOTE: All USB ports are assigned to a single virtual media session and cannot be mapped independently.

To launch a local virtual media session:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.
2. Connect to the server with which you wish to establish a virtual media session. Use the **Arrow** keys to highlight the server name, then press **Enter**.
3. Press **Print Screen** to re-open the Main dialog box.
4. Click *VMedia*. The Virtual Media dialog box displays.
5. Click to enable or disable the desired access options:
 - *Locked* - Synchronizes the KVM and virtual media sessions so that when a user disconnects a KVM connection, the virtual media connection to that server is also disconnected. A local user attempting to switch to a different server is also disconnected.
 - *Reserve* - Ensures that a virtual media connection can only be accessed with your user-name and that no other user can create a KVM connection to that server.
 - *CD ROM* - Allows virtual media sessions to the first detected CD-ROM drive. Enable this checkbox to establish a virtual media CD-ROM connection to a server. Disable to end a virtual media CD-ROM connection to a server.
 - *Mass Storage* - Allows virtual media sessions to the first detected mass storage drive. Enable this checkbox to establish a virtual media mass storage connection to a server. Disable to end a virtual media mass storage connection to a server.
 - *Write Access* - Allows a target server to write data to the virtual media during a virtual media session. Read access is always allowed during a virtual media session.
6. Click *OK* to accept the options you have selected and return to the Setup dialog box.

NOTE: To open a virtual media session with a server, the server must first be connected to the switch using a virtual media-capable DSAVIQ module (USB2 or USB2L).

Configuring OSCAR Interface Menus

You can configure your AutoView 2020/2030 switch from the Setup dialog box within the OSCAR interface. Select the *Names* button when initially setting up your switch to identify servers by unique names. Select the other setup features to manage routine tasks for your servers from the OSCAR interface menu.

Table 3.3: Setup Features to Manage Routine Tasks for Your Servers

Feature	Purpose
---------	---------

Table 3.3: Setup Features to Manage Routine Tasks for Your Servers (Continued)

Menu	Change the server listing between numerically by port or EID number and alphabetically by name. Change the Screen Delay Time before the OSCAR interface displays after pressing Print Screen .
Security	Set passwords to restrict server access. Enable the screen saver.
Flag	Change display, timing, color or location of the status flag.
Language	Choose the language display.
Devices	Identify the appropriate number of ports on an attached cascaded switch.
Names	Identify servers by unique names.
Feature	Purpose
Keyboard	Choose your keyboard country code.
Broadcast	Set up to simultaneously control multiple servers through keyboard and mouse actions.
Scan	Set up a custom scan pattern for up to 16 servers.
Switch	Set up the switch Switch mode.
Network	Choose your network speed and configuration. Specify the IP Address, Netmask and Gateway for your system.

To access the Setup menu:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.
2. Click *Setup*. The Setup dialog box displays.

**Figure 3.2: Setup Dialog Box**

Assigning server names

Use the Names dialog box to identify individual servers by name rather than by port number. The Names list is always sorted by port order. Names are stored in the AVRIQ or IAC module, so even if you move the cable/server to another ARI port, the name and configuration will be recognized by the switch.

NOTE: If a server is turned off, its respective AVRIQ module will not appear in the Names list.

To access the Names dialog box:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.
2. Click *Setup - Names*. The Names dialog box displays.

NOTE: If the server list changes, the mouse cursor will turn into an hourglass as the list is automatically updated. No mouse or keyboard input will be accepted until the list update is complete.

To assign names to servers:

1. In the Names dialog box, select a server name or port number and click *Modify*. The Name Modify dialog box displays.
2. Type a name in the New Name box. Names of servers may be up to 15 characters long. Supported characters include: A to Z, a to z, 0 to 9, space and hyphen.
3. Click *OK* to transfer the new name to the Names dialog box. Your selection is not saved until you click *OK* in the Names dialog box.
4. Repeat steps 1 to 3 for each server in the system.
5. Click *OK* in the Names dialog box to save your changes.
-or-
Click *X* or press **Escape** to exit the dialog box without saving changes.

NOTE: If an AVRIQ or IAC module has not been assigned a name, the EID is used as the default name.

Assigning device types

The AutoView 2020/2030 switch automatically discovers cascaded KVM switches, but you will need to specify the number of ports on the cascaded switch through the Devices dialog box. You will see Sw-4, Sw-8 or Sw-24 display in the Type category for the cascaded switch. Select the switch from the list and the Modify button displays, allowing you to assign it the appropriate number of ports.

NOTE: The Modify button will only be available if a configurable switch is selected.

To access the Devices dialog box:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.

2. Click *Setup - Devices*. The Devices dialog box displays.

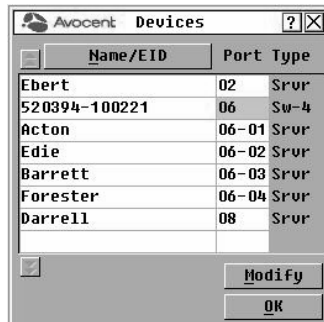


Figure 3.3: Devices Dialog Box

When the AutoView switch discovers a cascaded switch, you will notice the port numbering change to accommodate each server under that switch. For example, if the switch is connected to ARI port 6, the switch port would be listed as 06 and each server under it would be numbered sequentially 06-01, 06-02 and so on.

To assign a device type:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.
2. Click *Setup*. The Setup dialog box displays.
3. Click *Devices*. The Devices dialog box displays.
4. Select the desired port number.
5. Click *Modify*. The Device Modify dialog box displays.

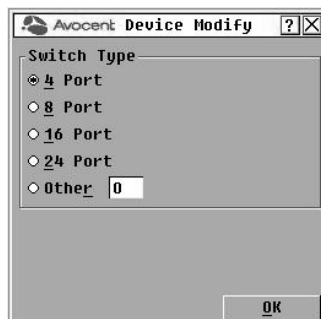


Figure 3.4: Device Modify Dialog Box

6. Choose or enter the number of ports supported by your cascaded switch and click *OK*.
7. Repeat steps 3 to 5 for each port requiring a device type to be assigned.
8. Click *OK* in the Devices dialog box to save settings.

NOTE: Changes made in the Device Modify dialog box are not saved until you click *OK* in the Devices dialog box.

Changing the display behavior

Use the Menu dialog box to change the display order of servers and set a Screen Delay Time for the OSCAR interface. The display order setting alters how servers will display in several screens

To access the Menu dialog box:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.
2. Click *Setup - Menu*. The Menu dialog box displays.

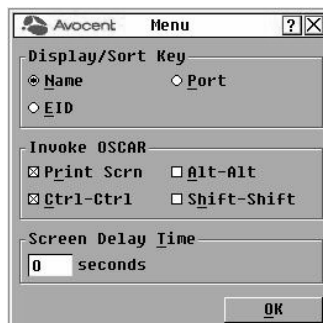


Figure 3.5: Menu Dialog Box

To choose the default display order of servers:

1. Select *Name* to display servers alphabetically by name.
-or-
Select *EID* to display servers numerically by EID number.
-or-
Select *Port* to display servers numerically by port number.
2. Click *OK*.

To select a key combination to launch the OSCAR interface:

1. In the Invoke OSCAR section, select which key combinations you wish to use to launch the OSCAR interface.

NOTE: One or all of the listed keyboard combinations can be selected. If only one keyboard combination is selected, it cannot be de-selected until a second one is chosen.

2. Click *OK*.

To set a Screen Delay Time for the OSCAR interface:

1. Type in the number of seconds (0 to 9) to delay the OSCAR interface display after you press **Print Screen**. Entering **0** will instantly launch the OSCAR interface with no delay.
2. Click **OK**.

Setting a Screen Delay Time allows you to complete a soft switch without the OSCAR interface displaying. To perform a soft switch, see *Soft switching* in this chapter.

Selecting display language

Use the Setup dialog box to change the display language for the OSCAR interface.



Figure 3.6: Language Dialog Box

To select a language for the OSCAR interface:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box displays.
2. Click *Setup - Language*. The Language dialog box displays.
3. In the Language dialog box, select the desired language and click **OK**.

Controlling the status flag

The status flag displays on your desktop and shows the name or EID number of the selected server or the status of the selected port. Use the Flag dialog box to configure the flag to display by server name or EID number, or to change the flag color, opacity, display time and location on the desktop.

Table 3.4: OSCAR Interface Status Flags

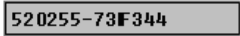
Flag	Description
	Flag type by name
	Flag type by EID number

Table 3.4: OSCAR Interface Status Flags

	Flag indicating that the user has been disconnected from all systems
	Flag indicating that Broadcast mode is enabled

To access the Flag dialog box:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.
2. Click *Setup - Flag*. The Flag dialog box displays.

To determine how the status flag is displayed:

1. Select *Name* or *EID* to determine what information will be displayed.
2. Select *Displayed* to show the flag all the time or select *Timed* to display the flag for only five seconds after switching.
3. Select a flag color in Display Color.
4. In Display Mode, select *Opaque* for a solid color flag or select *Transparent* to see the desktop through the flag.
5. To position the status flag on the desktop:
 - a. Click *Set Position* to gain access to the Set Position Flag screen.
 - b. Left-click on the title bar and drag to the desired location.
 - c. Right-click to return to the Flag dialog box.

NOTE: Changes made to the flag position are not saved until you click *OK* in the Flag dialog box.

6. Click *OK* to save settings.
-or-
Click *X* to exit without saving changes.

Setting the keyboard country code

The AutoView 2020/2030 switch can be configured to recognize a variety of keyboards. The default setting is for a US keyboard. If you wish to change this configuration, the Keyboard dialog

box allows you to select a different keyboard country code.



Figure 3.7: Keyboard Dialog Box

To change the keyboard country code:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.
 2. Click *Setup-Keyboard*. The Keyboard dialog box displays.
 3. Select your desired keyboard country code and click *OK*.
 4. A Keyboard Warning dialog box will appear to confirm your changes.
 5. Click *OK* for changes to take effect.
- or-
- Click *X* or press **Escape** to exit the dialog box without saving changes.

Setting console security

The OSCAR interface enables you to set security on your analog port console. You can establish a screen saver mode that engages after your console remains unused for a specified Inactivity Time. Once engaged, your console will remain locked until you press any key or move the mouse. You will then need to type in your password to continue.

Use the Security dialog box to lock your console with password protection, set or change your password and enable the screen saver.

NOTE: If a password has been previously set, you will have to enter the password before you can access the Security dialog box.

To access the Security dialog box:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.
2. Click *Setup - Security*. The Security dialog box displays.

To set or change the password:

1. Single-click and press **Enter** or double-click in the New text box.

2. Type the new password in the New text box and press **Enter**.
Passwords must contain both alpha and numeric characters, are case sensitive and may be up to 12 characters long. Supported characters are: A to Z, a to z, 0 to 9, space and hyphen.
3. In the Repeat box, type the password again and press **Enter**.
4. Click *OK* to change only your password, and then close the dialog box.

NOTE: If you should lose or forget your password, please contact Avocent Technical Support. See *Appendix C* for contact information.

To password protect your console:

1. Set your password as described in the previous procedure.
2. Select *Enable Screen Saver*.
3. Type the number of minutes for Inactivity Time (from 1 to 99) to delay activation of password protection and the screen saver feature.
4. For Mode, select *Energy* if your monitor is ENERGY STAR® compliant; otherwise select *Screen*.



CAUTION: Monitor damage can result from the use of Energy mode with monitors not compliant with ENERGY STAR®.

5. (Optional) Click *Test* to activate the screen saver test which lasts 10 seconds then returns you to the Security dialog box.
6. Click *OK*.

To log in to your console (after screen saver has been activated):

1. Press any key or move the mouse.
2. The Password dialog box displays. Type your password, then click *OK*.
3. The Main dialog box displays if the password was entered properly.

To remove password protection from your console:

1. From the Main dialog box, click *Setup - Security*; the Password dialog box displays. Type your password, then click *OK*.
2. In the Security dialog box, single-click and press **Enter** or double-click in the New box. Leave the box blank. Press **Enter**.
3. Single-click and press **Enter** or double-click in the Repeat box. Leave the box blank. Press **Enter**.
4. Click *OK* to eliminate your password.

To enable the screen saver mode with no password protection:

1. If your console does not require a password to gain access to the Security dialog box, proceed to step 2.

-or-

If your console is password protected, see the previous procedure, then go to step 2.

2. Select *Enable Screen Saver*.
3. Type the number of minutes for Inactivity Time (from 1 to 99) to delay activation of the screen saver.
4. Choose *Energy* if your monitor is ENERGY STAR® compliant; otherwise select *Screen*.



CAUTION: Monitor damage can result from the use of Energy mode with monitors not compliant with ENERGY STAR®.

5. (Optional) Click *Test* to activate the screen saver test which lasts 10 seconds then returns you to the Security dialog box.
6. Click *OK*.

NOTE: Activation of the screen saver mode disconnects the user from a server; no server is selected. The status flag displays *Free*.

To exit the screen saver mode:

Press any key or move your mouse. The Main dialog box displays and the previously selected server will be reconnected.

To turn off the screen saver:

1. In the Security dialog box, clear *Enable Screen Saver* and click *OK*.

To immediately turn on the screen saver:

Press **Print Screen**, then press **Pause**.

Displaying Version Information

The OSCAR interface enables you to display the versions of the AutoView 2020/2030 switch and the AVRIQ module firmware. For more information, see *Appendix A*.

To display version information:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.
2. Click *Commands - Display Versions*. The Version dialog box displays. The top half of the box lists the sub-system versions in the switch.

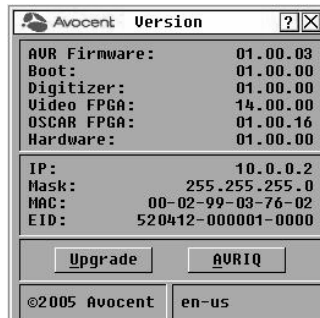


Figure 3.8: Version Dialog Box

3. Click the *AVRIQ* button to view individual AVRIQ module version information. The AVRIQ Select dialog box displays.
4. Select an AVRIQ module to view and click the *Version* button. The AVRIQ Version dialog box displays. For more information on loading firmware, see *Appendix A*.
5. Click *X* to close the AVRIQ Version dialog box.

Upgrading Your Firmware

The OSCAR interface also allows you to upgrade the firmware available for the AutoView 2020/2030 switch. For optimum performance, keep your firmware current.

NOTE: IAC modules are not field upgradable.



Figure 3.9: Upgrade Dialog Box

To upgrade firmware:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.
2. Click *Commands-Display Versions-Upgrade*. The Upgrade dialog box displays.

3. Click *Upgrade*. A Warning dialog box displays. Clicking *OK* will open the Upgrade Process dialog box. The progress of the upgrade will be indicated in the Programmed field.

Scanning Your System

In Scan mode, the AutoView 2020/2030 switch will automatically scan from port to port (server to server). A user can scan up to 16 servers, specifying which servers to scan and the number of seconds that each server will display. The scanning order is determined by placement of the server in the list. The list is always shown in scanning order. You can, however, choose to display the server's name or EID number by pressing the appropriate button.

To add servers to the scan list:

1. If the OSCAR interface is not open, press **Print Screen**. The Main dialog box will appear.
2. Click *Setup - Scan*. The Scan dialog box displays.

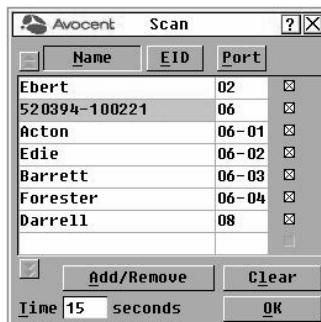


Figure 3.10: Scan Dialog Box

3. The dialog box contains a listing of all servers attached to your switch. Click the checkbox next to the servers you wish to scan.
-or-
Double-click on a server's name or port.
-or-
Press **Alt** and the number of the server you wish to scan. You can select up to 16 servers from the entire list.
4. In the Time box, type the number of seconds (from 3 to 99) of desired time before the scan moves to the next server in the sequence.
5. Click *OK*.

To remove a server from the scan list:

1. In the Scan dialog box, deselect the checkbox next to the server to be removed.
-or-
Double-click on the server's name or port.

-or-

Click the *Clear* button to remove all servers from the scan list.

2. Click *OK*.

To start the Scan mode:

1. If the OSCAR interface is not open, press **Print Screen**. The Main dialog box will appear.
2. Click *Commands*. The Commands dialog box displays.



Figure 3.11: Commands Dialog Box

3. Select *Scan Enable* in the Commands dialog box.
4. Click *X* to close the Commands dialog box.

NOTE: Scanning will begin when the Main dialog box or flag is displayed. Scanning is inhibited in any other OSCAR interface dialog box.

To cancel Scan mode:

1. Select a server if the OSCAR interface is open.
-or-
Move the mouse or press any key on the keyboard if the OSCAR interface is not open.
Scanning will stop at the currently selected server.
-or-
Press **Print Screen**. The Main dialog box will appear.
2. Click *Commands*. The Commands dialog box displays.
3. Clear *Scan Enable*.

Viewing the display configuration

The Display Configuration dialog box allows you to view the current configuration of your AutoView 2020/2030 switching system.

To view the current configuration:

1. If the OSCAR interface is not open, press **Print Screen**. The Main dialog box will appear.

2. Click *Commands- Display Config*. The Display Configuration dialog box displays and lists your system configuration values.

NOTE: This dialog box is for viewing the current configuration only.

Viewing and disconnecting user connections

You can view and disconnect users through the User Status dialog box. The username (U) will always be displayed; however, you can display either the target device name or EID number to which a user is connected. If there is no user currently connected, the username field will be blank.

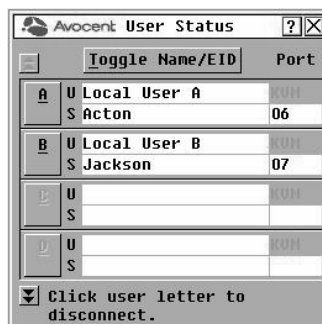


Figure 3.12: User Status Dialog Box

To view current user connections:

1. If the OSCAR interface is not open, press **Print Screen**. The Main dialog box will appear.
2. Click *Commands - User Status*. The User Status dialog box appears.

To disconnect a user:

1. From the User Status dialog box, click the letter corresponding to the user to disconnect. The Disconnect dialog box will appear.
 2. Click *OK* to disconnect the user and return to the User Status dialog box.
- or-
- Click *X* or press **Escape** to exit the dialog box without disconnecting a user.

NOTE: If the User Status list has changed since it was last displayed, the mouse cursor will turn into an hourglass as the list is automatically updated. No mouse or keyboard input will be accepted until the list update is complete.

Running System Diagnostics

You can validate the integrity of your system through the Run Diagnostics command. This command checks the main board functional sub-systems (memory, communications, switch control and the video channels) for each system controller.

To run diagnostics:

1. If the OSCAR interface is not open, press **Print Screen**. The Main dialog box will appear.
2. Click *Commands*. The Commands dialog box displays.
3. Select the *Run Diagnostics* option. A warning screen opens, indicating that connected users will be disconnected.
4. Click *OK* to begin.

The Diagnostics dialog box displays. Hardware tests are shown in the top of the dialog box, while the bottom portion divides the tested AVRIQ and IAC modules into three categories: On-line, Offline or Suspect. See Figure 3.13.

NOTE: AVRIQ modules or IAC modules may appear to be offline while being upgraded.



Figure 3.13: Diagnostics Dialog Box

Next to each item to be tested, you will see a pass (green circle) or fail (red x) symbol display to the left of each item as that test finishes. The following table details each of the tests.

Table 3.5: Diagnostic Test Details

Test	Description
Firmware CRCs	Reports on the condition of the main board RAM
On-line AVRIQ modules	Indicates the total number of currently connected and powered AVRIQ modules
Offline AVRIQ modules	Indicates the number of AVRIQ modules that have been connected successfully in the past and are powered down
Suspect AVRIQ modules	Indicates the number of AVRIQ modules that have been detected, but are either unavailable for connection or have dropped packets during the ping tests

To run diagnostic tests:

1. If the OSCAR interface is not open, press **Print Screen**. The Main dialog box will appear.

2. Click *Commands - Run Diagnostics*. A warning message displays indicating that all users will be disconnected.
3. Click *OK* to begin diagnostics.
-or-
Click *X* or press **Escape** to exit the dialog box without running a diagnostic test.
4. All users are disconnected and the Diagnostics dialog box displays.
5. As each test is finished, a pass (green circle) or fail (red x) symbol displays. The test is complete when the last test's symbol displays.

Broadcasting to Servers

You can simultaneously control more than one server in a system to ensure that all selected servers receive identical input. You can choose to broadcast keystrokes and/or mouse movements independently.

NOTE: You can broadcast to up to 16 servers at a time, one server per ARI port.

To access the Broadcast dialog box:

1. Press **Print Screen**. The Main dialog box will appear.
2. Click *Setup - Broadcast*. The Broadcast dialog box displays.

NOTE: Broadcasting Keystrokes - The keyboard state must be identical for all servers receiving a broadcast to interpret keystrokes identically. Specifically, the **Caps Lock** and **Num Lock** modes must be the same on all keyboards. While the switch attempts to send keystrokes to the selected servers simultaneously, some servers may inhibit and thereby delay the transmission.

NOTE: Broadcasting Mouse Movements - For the mouse to work accurately, all systems must have identical mouse drivers, desktops (such as identically placed icons) and video resolutions. In addition, the mouse must be in exactly the same place on all screens. Because these conditions are extremely difficult to achieve, broadcasting mouse movements to multiple systems may have unpredictable results.

To broadcast to selected servers:

1. From the Broadcast dialog box, select the mouse and/or keyboard checkboxes for the servers that are to receive the broadcast commands.
-or-
Press the **Up** or **Down Arrow** keys to move the cursor to the target server. Then press **Alt+K** to select the keyboard checkbox and/or **Alt+M** to select the mouse checkbox. Repeat for additional servers.
2. Click *OK* to save the settings and return to the Setup dialog box. Click *X* or press **Escape** to return to the Main dialog box.
3. Click *Commands*. The Commands dialog box displays.
4. Click the *Broadcast Enable* checkbox to activate broadcasting. The Broadcast Enable Confirm/Deny dialog box displays.

5. Click *OK* to enable the broadcast. Click *X* or press **Escape** to cancel and return to the Commands dialog box.
6. If broadcasting is enabled, type the information and/or perform the mouse movements you want to broadcast from the user station. Only servers in the list are accessible.

NOTE: The other user is disabled when Broadcast mode is enabled.

To turn broadcasting off:

From the Commands dialog box, clear the *Broadcast Enable* checkbox.

Changing Your Switch Mode

Your AutoView 2020/2030 switch allows you to connect to attached servers using two methods: Preemptive and Cooperative.

Select *Preemptive* (default setting) to allow any user to select any server at any time; a request from another user disconnects the current user without warning.

-or-

Select *Cooperative* to maintain the current user connection; the current user will not be disconnected if another user requests connection.

To access the Switch dialog box:

1. Press **Print Screen**. The Main dialog box will display.
2. Click *Setup-Switch*. The Swfmm(t)-7(c1)10.5(i)5.4lc1bo1in

To enable local port sharing:

1. Click *Share Enable*.
2. Type the number of seconds for a sharing time-out (from 10 to 600) to designate the amount of time that another user has control of the connected port.

APPENDICES

Appendix A: Flash Upgrades

Upgrading the AutoView 2020/2030 switch

The AutoView 2020/2030 switch Flash upgrade feature allows you to update your switch with the latest firmware available.

Items needed for the upgrade

- Available serial port (COM port) on the server
- Null modem serial cable (DB-male) to connect the switch and the server
- Firmware update

To upload a new Flash file:

1. Connect a terminal or PC running terminal emulation software (such as HyperTerminal) to the configuration port on the back panel of the AutoView 2020/2030 switch. The terminal should be set to 9600 bps, 8 bits, 1 stop bit, no parity and no flow control.
2. Connect the LAN port on the AutoView 2020/2030 switch to an Ethernet hub that is also connected to the PC being used as the TFTP server.
3. Launch both the server software and the terminal emulation software.
4. Verify that the AutoView 2020/2030 switch is powered. After approximately 40 seconds, the AutoView 2020/2030 switch will send out a message, Avocent AutoView 2020/2030 Ready ... Press any key to continue. Press any key to access the main menu. The AutoView 2020/2030 switch main menu displays.
5. Record the IP address of the TFTP server.
6. Assign the IP address in the AutoView 2020/2030 switch, if needed:
 - a. In the HyperTerminal window, type 1 to select Network Configuration.
 - b. Note the AutoView 2020/2030 switch IP address. The first three numbers must be the same as in the server's IP address from step 5. The last number must be different. If the AutoView 2020/2030 switch IP address is not correct, change it as follows: type 3 to select IP address, then enter the correct address.
 - c. Type 0 to exit the Network Configuration menu. If you changed the IP address, wait per the directions on the screen.
7. From the main menu, type 2 to select Firmware Management. The current version of your firmware displays in the Firmware Management screen.
8. From the Firmware Management screen, type 1 to select Flash Download.
9. Type the IP address of the TFTP server and press Enter.

10. Type the name of the Flash file and press Enter.
11. Confirm the TFTP download by typing y or yes and pressing Enter.
12. The AutoView 2020/2030 switch will verify the file you downloaded is valid. Next you will be prompted to confirm the upgrade. Type y or yes and Enter.
13. The AutoView 2020/2030 switch will begin the Flash upgrade process. On-screen indicators will display the upgrade process. When the upload is complete, the AutoView 2020/2030 switch will reset and upgrade the internal sub-systems.
14. Once the upgrade is complete, the startup message from step 4 will appear on the terminal screen.



CAUTION: The AutoView 2020/2030 switch will automatically begin the Flash upgrade process. On-screen indicators will display the upgrade process. When the upload is complete, the AutoView 2020/2030 switch will reset and upgrade the internal sub-systems.

Upgrading the AVRIQ module firmware

The AVRIQ modules can be upgraded individually or simultaneously.

NOTE: IAC modules are not upgradable.

To simultaneously upgrade multiple AVRIQ modules:

1. Press **Print Screen**. The Main dialog box will appear.
2. Click *Commands - AVRIQ Status*. The AVRIQ Status dialog box displays.



Figure A.1: AVRIQ Status Dialog Box

3. Click one or more types of modules to upgrade. Click Upgrade.
4. The AVRIQ Upgrade dialog box displays. Click OK to initiate the upgrade and return to the AVRIQ Status dialog box.

To upgrade AVRIQ module firmware individually:

1. Press **Print Screen** to launch the OSCAR interface. The Main dialog box will appear.

2. Click *Commands - Display Versions*. The Version dialog box displays.
3. Click *AVRIQ* to view individual AVRIQ module version information. The AVRIQ Select dialog box displays.
4. Select an AVRIQ module to upgrade and click the *Version* button. The AVRIQ Version dialog box displays.



Figure A.2: AVRIQ Version Dialog Box

5. Click the *Load Firmware* button. The AVRIQ Load dialog box displays.
6. Click *OK* to initiate the upgrade and return to the AVRIQ Status dialog box.

NOTE: During an upgrade, the AVRIQ module status indicator in the Main dialog box will be yellow. The AVRIQ module is unavailable while an upgrade is in progress. When an upgrade is initiated, any current connection to the server via the AVRIQ module will be terminated.

Appendix B: Technical Specifications

Table B.1: Product Specifications

AutoView 2020/2030 Switch Product Specifications	
Server Ports	
Number	16
Types	PS/2, Sun, USB and serial AVRIQ and IAC modules
Connectors	RJ-45
Sync Types	Separate horizontal and vertical
Plug and Play	DDC2B
Video Resolution	Analog Port Maximum 1280 x 1024 @ 75 Hz
Network Configuration Port	
Number	1
Type	Serial RS-232
Connector	DB9 Male
Analog Port Sets	
Number	2
Type	PS/2, USB, VGA and ACI
Connectors	PS/2 miniDIN, 15 pin D, RJ-45
Dimensions	
Dimensions (H x W x D)	4.45 x 43.18 x 27.94 cm 1U form factor (1.75 x 17.00 x 11.00 in.)
Weight	3.6 kg (8 lb) without cables
Heat Dissipation	92 BTU/Hr
Airflow	8 cfm
Power Consumption	12.5 W
AC-input power	40 W maximum
AC-input voltage rating	100 to 240 VAC Autosensing

Table B.1: Product Specifications (Continued)

AutoView 2020/2030 Switch Product Specifications	
AC-input current rating	0.5 A
AC-input cable	18 AWG three-wire cable, with a three-lead IEC-320 receptacle on the power supply end and a country or region dependent plug on the power resource end
AC-frequency	50/60 HZ
Temperature	0° to 50° Celsius (32° to 122° Fahrenheit) operating -20° to 60° Celsius (-4° to 140° Fahrenheit) nonoperating
Humidity	20 to 80% noncondensing operating 5 to 95% noncondensing nonoperating
Safety and EMC Approvals and Markings	
UL, FCC, cUL, ICES, CE, N, GS, IRAM, GOST, VCCI, MIC, C-Tick	

Appendix C: Technical Support

Our Technical Support staff is ready to assist you with any installation or operating issues you encounter with your Avocent product. If an issue should develop, follow the steps below for the fastest possible service.

To resolve an issue:

1. Check the pertinent section of this manual to see if the issue can be resolved by following the procedures outlined.
2. Check our web site at www.avocent.com/support to search the knowledge base or use the on-line service request.
3. Call the Avocent Technical Support location nearest you.

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For Technical Support:

www.avocent.com/support

Avocent Corporation
4991 Corporate Drive
Huntsville, Alabama 35805-6201 USA
Tel: +1 256 430 4000
Fax: +1 256 430 4031

Avocent Asia Pacific
Singapore Branch Office
100 Tras Street, #15-01
Amara Corporate Tower
Singapore 079027
Tel: +656 227 3773
Fax: +656 223 9155

Avocent Canada
20 Mural Street, Unit 5
Richmond Hill, Ontario
L4B 1K3 Canada
Tel: +1 877 992 9239
Fax: +1 877 524 2985

Avocent International Ltd.
Avocent House, Shannon Free Zone
Shannon, County Clare, Ireland
Tel: +353 61 715 292
Fax: +353 61 471 871

Avocent Germany
Gottlieb-Daimler-Straße 2-4
D-33803 Steinhagen
Germany
Tel: +49 5204 9134 0
Fax: +49 5204 9134 99



590-495-501A